

M. Farmer

FACULTY OF MEDICINE

1971-72

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Montreal Joint Hospital Institute
Nov. '70

FACULTY OF MEDICINE

Under the Administrative Jurisdiction of the
Faculty of Graduate Studies and Research

3665 DRUMMOND STREET
1971-72



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Assistant Professors — N. R. ALDOUS;

J. V. ANANTHARAMAIAH; G. AUFRITTER;
H. A. AZIM; F. AZIMA; S. BARZA;
J. BEAUBIEN; C. G. BOS; C. CAHILL;
C. H. CAHN; J. A. CORSON;
J. CUMBERLAND; I. S. DISHER;
B. O. DUBROVSKY; S. Z. DUDEK;
W. D. ENGELS; F. ENGELSMANN;
R. B. FELDMAN; B. A. GIBBARD;
H. GRAUER; N. GREENBERG;
G. F. D. HESELTINE; B. R. HUNT;
L. A. KERWOOD; J. W. LELLA; R. E. LEMON;
D. C. LEVIN; E. D. LEVINSON;
G. J. MAGUIRE; D. J. McClure;
K. K. MINDE; G. F. MORGENSEN;
H. F. MULLER; J. C. NEGRETTE; Y. NERMAN;
G. PETERFY; D. PIVNIICKI; R. H. PRINCE;
M. S. RABINOVITCH; S. J. SHAMSIE;
C. C. SMITH; L. SOLYOM; G. C. TAYLOR;
B. TROSSMAN; G. TURCOT; J. R. UNWIN;
H. WARNES; G. WEISS; S. WILNER

Lecturers — E. H. ACHONG; K. S. ADAM;

A. ALEXANDRIS; C. C. J. ANGLIKER; H. AST;
C. BENIERAKIS; R. BERNICK;
S. BIKADOROFF; J. E. BLUSTEIN; R. BOYER;
A. J. CARRE; G. CLERK; G. COUTU;
L. DALLAIRE; G. DaSILVA; H. DAVANLOO;
E. G. DEBANNE; H. A. EVANS; F. FENTON;
K. R. FERGUSON; J. D. HACKETT;
F. E. KRISTOF; G. LAROCHELLE; S. LECKER;
A. P. N. LEE; J. LEVY; D. LISSAK; H. MALMO;
A. F. MESZAROS; R. C. MUIR; A. K. MULLER;
E. NALTCHAYAN; C. NOVELLA;
J. M. PAIENTE; E. J. PINTER;
R. A. RAMSAY; I. REBNER; P. D. L. ROPER;
E. ROSKIES; A. RUSSELL;
G. SCHNEIDERMAN; P. D. SCULLY;
D. SILVER; R. M. SMITH; L. G. STERN;
L. VACAFLOR; N. WISEBORD

Demonstrators — M. ALMUDEVAR;

L. ARBITMAN; P. R. BECK; N. H. BOGO;
L. M. BUFFETT; P. B. CAMPBELL; C. COHEN;
H. CVEJIC; A. DAVID; H. FREEDMAN;
J. P. GAMACHE; G. GREGORIOU;
R. A. KELLER; T. KOLIVAKIS; S. A. MARTIN;

PSYCHIATRY

Psych.
in cliep.
at mt.
general

MEDICINE

K. MISSALA; J. MONTPETIT; G. C. PATTON;
A. M. SCHWARTZ; P. M. SEGAL; C. TAHTA;
M. TURSKI

DIAGNOSTIC RADIOLOGY

*Professors — J. S. DUNBAR (Chairman);
R. G. FRASER*

*Associate Professors — W. P. BUTT; R. ETHEIER;
F. R. MacDONALD; M. B. NOGRADY;
L. ROSENTHALL; D. J. SIENIEWICZ;
F. WINSBERG*

*Assistant Professors — W. J. ALEXANDER;
R. A. BEIQUE; P. A. FARRAR;
P. J. FITZGERALD; B. D. FLETCHER;
J. H. GAGNON; F. A. GRAINGER; B. B. HALE;
R. O. HILL; J. KISS; D. MELANSON; G. SAHA;
G. B. SKINNER; J. L. VEZINA; R. E. WILSON
Lecturers — F. M. BOSTON; C. M. COLE;
J. D. GIBSON; M. J. HERBA; N. A. KHAN;
P. SZENAS; J. TOTH*

THERAPEUTIC RADIOLOGY

Professor — J. BOUCHARD (Chairman)

*Associate Professors — J. J. HAZEL;
M. N. LOUGHEED*

Assistant Professor — T. N. ROMAN

*Lecturers — G. DOYLE; J. GAMERO;
C. GRAVELINE*

Lecturer in Physics — A. ROTENBERG

SURGERY

*Professors — L. D. MacLEAN (Chairman);
F. N. GURD; K. J. MacKINNON;
D. R. MURPHY; A. G. THOMPSON*

*Associate Professors — A. R. C. DOBELL;
R. D. GUTTMANN; L. G. HAMPSON;
E. J. HINCHEY; R. C. LONG; H. S. MORTON;
H. F. MOSELEY; D. D. MUNRO; W. L. OGILVY;
H. F. OWEN; J. D. PALMER; H. J. SCOTT;
E. J. TABAH; F. M. WOOLHOUSE*

*Assistant Professors — H. E. BEARDMORE;
N. S. BELLIVEAU; P. E. BLUNDELL;
W. M. COUPER; A. C. DERBY;
J. C. DICKISON; J. H. DUFF; M. A. ENTIN;
R. L. ESTRADA; I. W. D. HENDERSON;
F. G. INGLIS; A. F. JONES; G. M. KARN;
R. N. LAWSON; G. LEHMAN; D. T. W. LIN;
A. P. H. McLEAN; R. MIDGLEY;
N. MITCHELL; E. D. MONAGHAN;
J. R. MOORE; D. S. MULDER; D. A. MURPHY;
D. Y. E. PEREY; D. W. RUDDICK;
H. SHIBATA; I. SHRAGOVITCH*

*Lecturers — J. G. BEAUDOIN; R. A. BROWN;
M. S. CHUGTAI; A. N. FREEDMAN;
A. HRENO; W. C. LLOYD-SMITH;
K. G. McCULLOCH; B. MARIEN;
R. V. MORALEJO; J. MORIN;
H. B. WILLIAMS; J. A. S. WILSON*

*Demonstrators — D. K. BLACK; E. E. BROOKS;
L. J. GENENDER; M. LAPLANTE;
P. MADORE; C. J. PEARL;
A. S. POPIERAITIS; H. SIGMAN;
H. D. STEVENS*

Division of Surgical Research

*Director — The Chairman of the Department of
Surgery*

Assistant Director — J. GORDON

*Professors — L. D. MacLEAN (Chairman);
F. N. GURD; D. R. MURPHY*

*Associate Professors — H. F. JEEJEEBHoy;
S. C. SKORYNA*

*Assistant Professors — D. M. EDWARD;
J. GORDON; C. A. LAURIN; A. H. McARDLE;
S. PITZELE; Y. TANAKA*

*Lecturers — A. M. DANIEL; J. RIVILIS;
J. ROSENSWEIG; N. M. SHEINER*

Division of Orthopaedic Surgery

*Associate Professors — R. L. CRUESS;
J. M. McINTYRE; J. E. MILLER*

*Assistant Professors — I. BITENC;
N. MITCHELL; E. C. PERCEY;
R. G. TOWNSEND; C. L. WILSON;
W. E. WILSON*

*Lecturers — A. A. BUTLER; H. F. FARFAN;
D. B. FORBES; R. B. GLEDHILL;
F. A. H. GREENWOOD; J. L. SHUGAR;
J. TEMPLETON*

*Demonstrators — D. S. DRUMMOND;
G. R. MURPHY; T. N. SILLER;
W. McB. WRIGHT*

Division of Urology

Professor — K. J. MacKINNON

Associate Professor — E. C. REID

*Assistant Professors — D. D. MOREHOUSE;
B. M. MOUNT; J. H. OH; J. A. OLIVER;
Y. TAGUCHI*

*Lecturers — I. J. DeDOMENICO;
S. A. JACOBSON; W. F. LINGARD;
H. RABINOVITCH*

*Demonstrators — C. F. D. ACKMAN;
J. W. FOOTE; N. HALPERN; M. LAPLANTE;
S. G. MacISAAC; T. NEARING*

2

GENERAL INFORMATION

The one hundred and thirty-ninth session of the Faculty will open on 8 September 1971, for students of the first three years.

Separate Announcements are available for the School of Physical and Occupational Therapy, and the School for Graduate Nurses.

Details of Scholarships, Bursaries, Prizes, Medals, and Loan Funds are given in the

Scholarships Announcement, which may be obtained from the Registrar's Office.

Administrative Offices of the Faculty of Medicine are in the McIntyre Medical Sciences Building, 3655 Drummond St., Montreal. Note that the official mailing address of the University is: McGill University, P.O. Box 6070, Montreal 101, P.Q., Canada.

2.1 BUILDINGS

2.1.1

MCINTYRE MEDICAL SCIENCES BUILDING

This building contains the Offices of Administration, the Medical Library, the Osler Library of the History of Medicine, the Departments of Biochemistry, History of Medicine, Pharmacology and Physiology and a number of special research units.

2.1.2 STRATHCONA MEDICAL BUILDING

This building contains the Department of Anatomy, the Department of Investigative Medicine and the Faculty of Dentistry.

2.1.3

PATHOLOGICAL INSTITUTE

This building was opened for use in October 1924. The construction of a seven-storey wing, completed in June 1966, provided a total area of approximately 140,000 square feet of laboratory and teaching facilities. The Institute is situated on the north-east corner of University Street and Pine Avenue adjacent to the Montreal Neurological Hospital and the Royal Victoria Hospital. It is occupied by the Departments of Microbiology and Immunology, of Epidemiology and Health, and of Pathology. The building has extensive facilities for teaching, research and diagnosis.

2.1.4

MONTREAL NEUROLOGICAL INSTITUTE

This eight-storey building, which is situated on University ground adjacent to the Pathological Institute and the Royal Victoria Hospital, was opened in 1934. The construction of the McConnell Wing, opened in 1953, approximately doubled both the clinical and laboratory space. With excellent equipment and facilities for research, as well as the medical and surgical treatment of disorders of the nervous system, it houses the University Department of Neurology and Neurosurgery, which conducts both undergraduate and graduate teaching in the Faculty of Medicine and the Montreal Neurological Hospital for the care of patients with organic diseases of the nervous system. In addition to wards, operating rooms, and laboratories for treatment and study of diseases of the nervous system, the building provides facilities for graduate study and research in the related fields of basic science.

2.1.5

ALLAN MEMORIAL INSTITUTE

In 1943 a large building and site were donated as a basis for the development of an Institute of Psychiatry. The building was reconstructed to permit the establishment of a fifty-bed unit, together with extensive research laboratories, and was officially opened July 12, 1944.

In 1946 the first day hospital in the world was opened at the Institute and in 1953 a fifty-bed wing was added.

In 1963 a research and training building was added by McGill University thus providing one

of the most extensive and modern research areas.

Both undergraduate and postgraduate teaching are carried on at the Institute.

2.1.6

DONNER BUILDING

The Donner Building for Medical Research, adjacent to the Strathcona Medical Building, was completed in September 1948. Its erection was made possible through the generosity of William H. Donner of Philadelphia, the late founder of the International Cancer Research Foundation, who provided the funds necessary for the construction of a building entirely devoted to medical research. It has recently been renovated through the generous assistance of the Donner Foundation.

The building houses the Maxwell Lauterman Laboratories for Surgical Research and the Gastrointestinal Research Institute and also provides facilities for many types of medical and surgical investigation.

2.2 HOSPITALS

2.2.1

MCGILL UNIVERSITY TEACHING HOSPITALS

There are four McGill University Teaching Hospitals. By agreement and tradition the administration, the medical staff and scientific personnel of these institutions are closely integrated with McGill University and form the basis for the clinical departments of the Faculty of Medicine. They are the following:

Royal Victoria Hospital
The Montreal General Hospital
The Montreal Children's Hospital
Montreal Neurological Hospital

The Royal Victoria Hospital comprises the following units under one administration:

1. The Main Building;
2. The New Medical Wing;
3. The New Surgical Wing;
4. The Ross Memorial Pavilion for private patients;
5. The Women's Pavilion — Royal Victoria Montreal Maternity;
6. The Allan Memorial Institute.

The total bed complement is 1,018, with 115 bassinets. Admissions total over 24,000 and confinements are in excess of 3,800 a year. There are more than 125,000 visits annually to the Outpatient Department. The University Clinic was established in 1924 and has facilities for both clinical laboratory work and research.

Post-mortems are conducted in approximately 60 per cent of the deaths.

The number of resident physicians is 212.

The Montreal General Hospital has a bed complement of 910 for the treatment of acute diseases. In a typical year, there are approximately 20,000 admissions and 160,000 consultations in the Outpatient Department. The resident and interne staff numbers 175.

The "Montreal General" was founded in 1821; two smaller buildings downtown had preceded it in 1816 and 1819. In age, therefore, it is not the oldest hospital in Canada, but its record in clinical teaching is one of the longest on the North American continent.

From the time the Hospital was opened, its staff began to arrange for students and, in 1823, they opened the first Medical School in Canada, the Montreal Medical Institution, with 25 students. Teaching was carried on partly at the Hospital. It was this School which agreed to form the Medical Faculty of McGill University in 1829; the beginning of a long and intimate association between the Hospital and the University.

The present buildings on Cedar Avenue were occupied in 1955.

The Montreal Children's Hospital located on Tupper Street near the Atwater Metro Station has 343 beds (approximately 65% public beds), and, in a typical year, admits 12,300 patients. The attendance at its Outpatient Department is approximately 170,000 visits, 40,000 in Emergency and 130,000 in the clinics. The hospital admits newborn infants, children and adolescents with all kinds of medical and surgical problems.

An active teaching programme is maintained for the medical students and for the 125 internes and residents. The McGill University-Montreal Children's Hospital Research Institute is located in the hospital, and sponsors research and postgraduate education in disciplines related to problems of childhood.

The Montreal Neurological Hospital, consisting of the hospital activities of the Montreal Neurological Institute, is situated across the street from the Royal Victoria Hospital and constitutes the Department of Neurology and Neurosurgery for this hospital. There are 135 beds, including a paediatric unit, for the care and investigation of patients with organic diseases of the nervous system. There are approximately 2,200 admissions yearly, about half to the Neurological Services and half to the Neurosurgical Services. Approximately 1,200 surgical procedures are carried out each year.

2.2.2 SPECIALTY TEACHING HOSPITALS

The following hospitals are affiliated with the McGill University Faculty of Medicine. All the departments and services of these hospitals participate in teaching and research in a single specialty:

Douglas Hospital
Royal Edward Chest Hospital

Douglas Hospital was opened in 1890. It is a psychiatric hospital for the treatment of emotional and mental diseases and with its 1,717 beds serves mainly the English-speaking communities of the Province of Quebec. There are also facilities for adolescent behaviour problems and children with mental disorders.

The hospital is directed by a private Board of Governors but admits non-paying patients on

the basis of a contract with the Provincial Government. There are approximately 1,700 admissions per year and in the After Care Clinic about 2,000 patients are seen during the year.

Third year undergraduate medical students of McGill University spend nine weeks on the wards of the hospital as part of their psychiatric teaching. The hospital provides clinical instruction and training of nurses, nursing assistants, occupational therapists, psychologists and social workers, and field work experience for postgraduate training of professional personnel. An active research programme is carried on in the basic and clinical aspects of human behaviour.

The Royal Edward Chest Hospital has as its objectives the study, prevention and treatment of Tuberculosis and diseases of the chest. It operates on an Outpatient Department and In-patient basis. The Outpatient Department includes an Anti-Tuberculosis Dispensary and a Chest Clinic. The Hospital contains a 100-bed Non-Tuberculous Chest Condition Unit and a 24-bed Tuberculous Unit. Its facilities include Operating Rooms and Laboratories and it maintains an active research programme. Residency appointments number 10.

2.2.3 HOSPITALS PARTIALLY AFFILIATED WITH MCGILL UNIVERSITY

The following hospitals have been approved and have contracted with McGill University for participation in teaching and research in one or more departments and services:

Catherine Booth Hospital
Jewish General Hospital
The Lakeshore General Hospital
Montreal Heart Institute
Queen Elizabeth Hospital of Montreal
Queen Mary Veterans Hospital
Reddy Memorial Hospital
St. Mary's Memorial Hospital
Shriners' Hospital for Crippled Children

2.3 LIBRARIES

2.3.1 MEDICAL LIBRARY

Medical Librarian — MR. DAVID BISHOP

The Medical Library is located on the second, third, and fourth floors of the McIntyre Medical Sciences Building. The entrance to the Library is on the third floor near the elevators. On this floor are found the Circulation Desk, the Reference Department, the catalogue, the book collection, part of the journal collection and the study rooms. The second and fourth floors hold mostly journals and additional seating space. Seating space on the fourth floor of the Library is reserved for medical students and academic staff. The Library offices are located on the second floor.

The Library is open during the academic session from Monday to Friday, 8:30 a.m. to midnight; Saturday and Sunday, 8:30 a.m. to 5:00 p.m. Changes in Library hours, and especially summer hours, are posted on the door

of the Library as well as on bulletin boards elsewhere in the building.

The Library is for medical students and for those students in other faculties whose coursework requires the use of Medical Library material. The teaching staff of the whole University, and research workers and doctors in the city are entitled to use the Library. An extensive photocopy and interlibrary loan service throughout the country is maintained. Reference services include access to computerized search facilities such as MEDLARS and SDI.

The chief value of the Library is in its journal collection. Of 117,000 volumes held, over 88,000 are journal volumes, and approximately 1,600 titles in many languages are currently received. The book collection is especially noteworthy in the ophthalmology section, due in large measure to many gifts from the late Dr. Casey A. Wood. There are also small libraries and collections of books and journals in departments of the Faculty.

Members of the Medical Library Advisory Committee are: Dr. E. E. McGarry, Chairman, Dr. Donald Bates, Dr. J. Blundell, Dr. M. Whitehead, one medical student representative, one graduate student representative, the Medical Librarian, and the Assistant Medical Librarian.

2.3.2

OSLER LIBRARY OF THE HISTORY OF MEDICINE

The two-storey wing extending out from the third and fourth floors of the McIntyre Medical Sciences Building is the Osler Library and is entirely devoted to the medical-historical collection. Besides library offices and stack space, this Library consists of two reading rooms, the Wellcome Camera, accessible through the Main Reading area of the Medical Library on the third floor, and the Osler Room beyond the Camera.

The collection, consisting of about 25,000 volumes in the history of medicine and its sciences, has, as a nucleus, the 8,000 volumes bequeathed to McGill by one of its most famous pupils and teachers, Sir William Osler. It is especially this portion which is rich in 15th, 16th, 17th, and 18th century medical books. In addition, all books printed before 1850 have been transferred from the Medical Library to this collection. The rest of the collection has been purchased by the Osler Library itself, especially since 1957, a generous grant from the Wellcome Trust having made active growth of the Library possible. The Library is constantly adding to the collection, especially new books on the history of all aspects of medicine and medical people.

All books in the collection are available for use within the Library and the vast majority of them are loanable. Undergraduates and all interested persons may use the Library except as restricted by the attending Library staff. For the holdings of the Library, users are urged to consult the card catalogue, and the book catalogue entitled *Bibliotheca Osleriana*, both of which

are in the Wellcome Camera. At present, the collection is not completely catalogued anywhere else in the University.

2.4 MEDICAL SOCIETIES

2.4.1

MCGILL MEDICAL STUDENTS' SOCIETY

The Society is an association of all registered medical students. Acting through its Council, which is composed of elected and appointed student representatives, the Society performs two main functions:

- 1) to represent the medical student body in all its dealings with the Medical Faculty, and
- 2) to regulate all Society affairs, e.g., Medical Ball, Banquet, Essay Competition.

In performing its first function, the Society leaders act as a liaison between faculty and students on all matters of mutual interest and concern. Recent items of mutual concern have been scheduling of Fourth year studies, hours of library operation, and the status of McGill medical students in the Province of Quebec.

The second main function involves the organization of the medical student extracurricular life as it exists. Besides sponsoring social functions, the Society publishes a quarterly journal, *The McGill Medical Journal*, which contains reports of student research and scholarly articles on many aspects of medicine. The Society also publishes a monthly *Bulletin* to inform students of current news and upcoming events, and an annual yearbook, *The Speculum*.

Active participation in Society affairs is one of the best ways of complementing the medical school experience.

2.4.2

ALPHA OMEGA ALPHA HONOUR MEDICAL SOCIETY

This Society, which has Chapters in the various Medical Colleges of Canada and the United States, established a subsidiary branch at McGill University in 1912.

There are honorary, graduate, and undergraduate members. Honorary members are selected from such teachers as are more particularly interested in the advancement of scientific medicine. Undergraduate members are selected from those students who, during their earlier academic careers, have shown promise of development and have attained honour rank. They are eligible for election in the Third and Fourth years.

Meetings are held every month throughout the session, and papers are read by honorary and active members, as well as by graduates. Once during the year an open meeting is addressed by a visitor who is prominent in the medical world.

2.4.3

OSLER SOCIETY

The Osler Society was founded in the Spring of 1921 by a number of undergraduates in Medicine, its object being to perpetuate the memory and teachings of Sir William Osler by

the reading of papers and discussion of topics reflecting his ideals of a liberal medical education. Thus those interested may supplement their clinical and scientific knowledge by the consideration of those topics of medicine which are of historical and literary significance.

The membership includes students from each class in the faculty. Several professors have shown an active interest in the Society and have added a more mature note to the discussion. Each year an Honorary President has been elected from this older group.

2.5 ACADEMIC CREDIT TRANSFER AGREEMENT

Students wishing to take courses for credit towards their McGill degree at either Sir George Williams University, Université de Montréal, or Université du Québec à Montréal should refer to the section entitled "Academic Credit Transfer Agreement" in the *General Announcement* for details.

3 CURRICULA, COURSES OF STUDY AND PROGRAMMES

3.1 FOUR-YEAR PROGRAMME IN MEDICINE

3.1.1 APPLICATION FOR ADMISSION

Application for admission to the Faculty of Medicine must be made upon the regular application form which may be obtained from the Associate Dean, Room 609, McIntyre Medical Sciences Building, or from the Registrar's Office.

As the number of students in each class is limited, application should be made early and in any case not later than December 15. Each application must be accompanied by a non-returnable fee of \$10.00 in the form of a cheque or money order payable to McGill University.

A fee of \$50.00 is payable by the applicant within ten days of the receipt of notice that he has been accepted for admission. This deposit is not refundable after March 15. If the applicant registers within the prescribed registration period in September, this fee will be credited on his University fees. If he fails to register, the fee lapses, and will be used by the University to meet the cost of its administration and overhead charges in caring for applicants who do not finally register.

3.1.2 REQUIREMENTS FOR ENTRANCE

1. (a) *Total Academic Credits:* The minimum requirement for admission to the medical programme is the satisfactory completion of three full years of study in a recognized college or Faculty of Arts and Science in harmony with the requirements for the degree of B.A. or B.Sc. at the college where the courses are taken. Preference is given to those who have completed the work leading to a B.A. or B.Sc. degree.

(b) Residents of the Province of Quebec completing the two-year programme in Quebec Colleges of General and Professional Education are eligible to submit an application. Successful applicants in this category will enter a five-year programme; the first year will supplement

the undergraduate pre-medical training provided by the CEGEPs, following which the student proceeds into the present four-year medical curriculum.

(c) *Scientific Requirements:* In the scientific branches, certain subjects are specifically required:

Chemistry, two full courses, including general chemistry and organic chemistry, with laboratory work.

Physics, one year with laboratory work.

Biology, or zoology, one year with laboratory work. (Of this, a half year must consist of zoology.)

(d) *Cultural Requirements:* These must be selected in such a way as to be in harmony with the requirements for the degree of B.A. or B.Sc. at the college where the courses are taken. These would commonly include credits in English literature and composition, and in mathematics. In addition, a working knowledge of the French language is helpful for 3rd- and 4th-year medical students. It is advisable that each applicant present evidence of such preparation.

(e) All candidates for admission to the Medical Faculty are required to take the Medical College Admission Test conducted by The Psychological Corporation (304 East 45th Street, New York, N.Y. 10017) or to furnish an explanation of why they are unable to do so. This test should be taken not later than the spring of the Third year of undergraduate study.

2. In selecting courses, in addition to the specific requirements listed above, an intending medical student should plan his pre-medical programme as a whole, and in accordance with a definite educational objective. Emphasis should be laid on the broad educational value and the intellectual training afforded, rather than on the factual content of such pre-medical curricula; the student is therefore advised to plan his programme in such a way as to provide more than elementary training in some definite field of learning which appeals to him; this major field may be selected from the natural or the social sciences or the humanities. Certain subjects which though not essential have

been found valuable in medical study, and which may be included as electives if the curriculum in the major field permits, are psychology, sociology, and genetics.

Students with a strong interest in science and with aptitude for scientific studies should consider pursuing Physiology, Histology, or Biochemistry at the B.Sc. level to a high standard, and all of these subjects provide an excellent background for entry to medical school. Other students may prefer to acquire a broader educational background during their premedical training, and the Admissions Committee will consider admission into Medicine from students of high standing independently of the scientific background they may have acquired during their premedical programme.

The students' attention is called to the memorandum printed in the *Announcement of the Faculty of Arts and Science* for the guidance of those who wish to enter Medicine.

3.1.3

EQUIVALENT STANDING

A student of another medical school who desires to be admitted to the Faculty of Medicine of this University with equivalent standing is required to submit an official statement of his preliminary education and of the medical programme he has followed and the standing he has obtained. This should be accompanied by a calendar of the medical school in which he has studied, giving a full statement of the course of study, and by a certificate of moral character and conduct.

The equivalent courses of study in schools recognized by this University shall be determined from time to time. Acceptance of a course of study as equivalent may not include the examination in that subject held by the recognized school, but the student may be required to pass such examinations, individual or comprehensive, as may be required by the Faculty.

3.2 REGISTRATION

Students in the Faculty of Medicine will register on Tuesday, September 7, 1971. There will be a late registration fee of \$25.00. The fee will not be refunded except by authorization of the Faculty. No student will be admitted after the fifteenth day of the session except by special permission of the Faculty.

3.3 FEES

The University reserves the right to make changes without notice in its published scale of fees if, in the opinion of the Board of Governors, circumstances so require. Fees are not refundable, except under special conditions described in the General Announcement.

3.3.1

UNIVERSITY FEES

1. Four-Year Programme in Medicine	
First to Third years.....	\$800.00
Fourth year	805.00
2. Repeating Students	
Students repeating a year pay full fees.	
3. Ad Eundem Fee	
Students entering any year above the First, pay a special <i>ad eundem</i> fee of.....	10.00

3.3.2

GENERAL REGULATIONS

1. Students entering the University for the first time are required to pay their fees either by mail or in person at the Accounting Department.

The first instalment is due within 10 days after registration, the second instalment before January 13, 1972.

A late payment fee of \$10.00 is charged for payment during the first 30 days after registration. A late payment fee of \$25.00 is charged thereafter.

2. Students who have completed one or more years and intend to register in the succeeding year must pay one half of the total sessional fee by mail or in person to the Accounting Department before August 23, 1971, otherwise they will not be permitted to register. Instructions for paying fees in advance will be mailed to all upper year students, either with their Reports of Sessional Standing or a short time later. Students who have been notified by the University of the award of a scholarship, bursary or student loan, and who require this for payment of the first instalment of fees, must obtain from the Student Aid Office, McGill University, a Permit to Delay Payment of Fees.

The second instalment is due January 13, 1972. A late payment fee as mentioned above is charged for payment after the specified dates.

3. Students registering late must pay their fees at the time of registration, failing which they become subject to the late payment fee and the provisions of the following paragraph:

As soon as possible after the prescribed dates for the payment of fees the Chief Accountant will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Deans will thereupon suspend them from attendance until such time as the fees are paid or a satisfactory arrangement is made with the Chief Accountant.

All fees are payable in Canadian currency.

For further information and for a list of special fees see the *General Announcement*.

3.3.3

MICROSCOPES

Each student on beginning his studies is required to provide himself with a first-class microscope for laboratory and private study throughout his course. The Medical Faculty has examined a large number of student monocular microscopes and has agreed upon specifications which it regards as best suited to student requirements. Copies of these specifications are circulated by the Dean's Office to all students entering the Faculty of Medicine.

The University does not rent microscopes to medical students.

3.3.4**BOARD AND RESIDENCE**

For details of board and residence and an estimate of expenses, see the *General Announcement*.

3.3.5**HEALTH SERVICE**

For details of the Health Service and medical examinations see the *General Announcement*.

3.4 CHANGES IN THE MEDICAL CURRICULUM

The Faculty of Medicine has instituted a major curriculum revision, certain features of which were introduced into the programme of the First-year class in the Fall of 1967. This class will graduate by 1971, and changes which involve the Second, Third and Fourth years of the medical curriculum will be introduced as the class enters its subsequent years. These changes are:

- a) Implementation of an expanded elective programme;
- b) Increased incorporation of clinical material into the basic science programme of the first two years;
- c) Introduction of a Behavioural Science course to the First-year curriculum;
- d) Institution of a course in "Integrated Teaching" in the third quarter of the Second year.

The expanded elective programme has been introduced to enable the student to play a significant role in his education, and to engender an independent and discriminatory approach to learning — necessary in the continuing process of self-education, and vital to the practice of good medicine in later professional life.

In addition, the elective programme may provide an opportunity for medical students to make earlier career choices, and it will enable them to return to a study of the basic medical sciences at a time when they have had significant clinical exposure.

This programme is being implemented by introducing the following curriculum changes:

Extension of the academic year to 40 weeks in the first two years, and to 36 weeks in the Third year.

The provision of an eight-week block of elective time in the Second year, during the final eight weeks of the session.

The provision of a nine-week "block" of elective time in the Third year — such elective time to be taken during any of the four "blocks" into which this year is divided.

Provision of a 12 week elective "block" in the Fourth year.

The increased use of clinical material in the basic science courses will give greater relevance to the body of knowledge which First-

and Second-year students must acquire. The continuing integration of clinical material throughout the 4 years should stimulate student interest and provide an improved knowledge of the basic sciences and a greater understanding of their importance as a background for sound clinical practice.

3.5 BEHAVIOUR, GROWTH AND DEVELOPMENT COURSE

This course, consisting of 120 hours of lectures, demonstrations and visits, is planned to introduce the student as early as possible to certain aspects of the clinical field, particularly those of behaviour, growth and development.

The student is given an opportunity to learn about a series of clinical and technical emotionally-tinged situations. Interviewing is introduced, utilizing audio-visual aids and rating scales, which permits participation of the class as a group.

Other sections introduce the student to psychosomatic interactions, the developing individual in families and groups, problems of separation, and the subjective side of illness, chronic disease and death. This part has been under the aegis of the Department of Psychiatry.

The second portion of the course, directed by the Department of Paediatrics, deals with genetic factors related to growth and development, pre- and perinatal adaptation, adolescence, sexual maturation and adjustment, and the problems of senescence and aging.

The course is multi-disciplinary, given by teachers from a number of sciences and specialties. While the Department of Medicine provides most of the staff, outstanding teachers in the fields of zoology, anthropology, sociology, philosophy, social work, psychology, and the clergy are also included.

In the third quarter of the Second year, an experiment in the development of an integrated teaching programme will be introduced. The programme, which will consist of instruction organized by subject committees rather than by departments, will be presented at the time that students are exposed to physical and laboratory diagnosis. This will reinforce an appreciation of the close relationship existing between the pre-clinical and clinical disciplines, and lead to a closer rapport between the various departments contributing to the integrated programme.

As the new curriculum will have been introduced to the Third, and Fourth years of the programme in 1970, and 1971, respectively, all our department listings in this *Announcement* may not reflect the changing curriculum. For more detailed information, please contact the department or departments concerned.

3.6 MODIFIED FOURTH YEAR

The Faculty of Medicine has recently introduced a full 12-month clerkship in the Fourth year. It is anticipated that the students will rotate through the major clinical services during this year, and on each of these services they will occupy a well-defined position as a regular member of a clinical teaching unit, with increased responsibility for patient care.

It is believed that the introduction of the full Fourth year clerkship will establish a more appropriate gradient of responsibility, allowing a senior student to have an excellent opportunity to improve on the major gains in clinical skills and professional maturity made during the Third year. In addition, it is generally believed that postgraduate training should not be rigidly separated from the undergraduate experience, and that a concept of a continuum of education should be established. It is expected that the full 12 month clerkship will aid the development of this concept, while allowing the student on graduation to enter directly into specific postgraduate training programmes.

Significant elective time will be available within the 52 week block; in addition, a 4-week holiday is provided. All students will qualify for a stipend of \$188 a month, from the Provincial Government, during their senior year.

3.6.1 CURRICULUM REVIEW

The Faculty realizes that there is a need for constant review of the medical curriculum necessitated by:

- Current rapid advances in scientific knowledge.
- Probable changes in the role of the medical school in relation to the community with concomitant changes in the delivery of health care.
- Continued application of principles developed in the field of general educational science to medical education.

Therefore a permanent student-faculty curriculum committee operates within the Faculty of Medicine. This Committee is charged with the task of studying the necessity for further curriculum revision, and planning the implementation of any modifications thought desirable.

3.7 COURSES FOR THE DEGREE OF M.D.,C.M.

The minimum period of professional training required by the University as a qualification for the independent practice of Medicine shall be five years, including:

- four years of medical study in the University leading to the degree of M.D.,C.M.; and

b) one year of internship in an approved hospital.

While the Faculty's administration exercises a general supervision of arrangements for internships, the Faculty of Medicine assumes no responsibility to provide an internship for any student.

A certificate that his medical education is completed and that he is eligible to sit for the examination of a licensing board shall not be issued to any graduate until the University is in possession of satisfactory evidence that he has completed the full requirements.

The arrangement of the principal subjects of instruction is usually as follows:

FIRST SESSION

Anatomy (including Embryology), Histology, Physiology, Biochemistry, Behavioural Science Course, Biology of Disease, History of Medicine.

SECOND SESSION

Central Nervous System (Neuroanatomy, Neurophysiology, Psychology), Medical Microbiology, Epidemiology & Health, Pharmacology and Therapeutics, Special Pathology, Behavioural Science Course, and Introduction to Clinical Sciences (a co-ordinated programme instructing the student in basic clinical skills), Medical Jurisprudence, Elective.

THIRD SESSION

Medicine, Surgery, Neurology and Neurosurgery, Psychiatry, Pharmacology and Therapeutics, Ophthalmology, Otolaryngology, Radiology, Elective.

FOURTH SESSION

Medicine, Surgery, Obstetrics and Gynaecology, Paediatrics, Ophthalmology, Otolaryngology, Radiology, Elective.

3.8 EXAMINATIONS

The examinations taken within the Medical Faculty are divided into two groups, namely major examinations and minor examinations. Major examinations are the final examinations in Anatomy (Embryology), Histology, Physiology, Biochemistry, Pharmacology, Medical Microbiology, Special Pathology, Epidemiology and Health, Paediatrics, Medicine, Surgery, Obstetrics and Gynaecology, Psychiatry, Central Nervous System.

The examinations in Medicine, Surgery, Obstetrics and Gynaecology, and Psychiatry at the conclusion of the Third Session are ranked as major examinations, even though they are not the final examinations in these subjects.

Minor examinations include the final examinations in General Pathology and Introduction to Clinical Sciences.

A student who fails in any major examination will be required, before he writes a supplemental examination, to present to the Dean's office from the senior professor of the department

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ment concerned a certificate that the student has taken sufficient extra tuition as would indicate that he has reviewed the subject and is a suitable candidate for the supplemental examination.

There is a strict difference between the importance of a major and a minor examination. If a student fails in the supplemental of a major examination, there are definite restrictions as shown below, but if he fails in the supplemental of a minor examination he is permitted to carry conditions as shown below.

A student is not allowed supplementals in three major examinations in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student is not allowed supplementals in two major and one minor examination in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it is decided that he should retire.

Unless the Promotion Committee finds special mitigating circumstances, a failure in the supplemental of a major examination will require the student to repeat his year, and no student may repeat such a year more than once. Any student who fails in the supplementals of two major examinations in any one year shall be required to retire without the privilege of further supplementals.

A student who fails in the supplementals of three or more minor examinations in any one year must repeat this year or may be asked to retire, as may be decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it is decided that he should retire.

A student who fails in the supplementals of not more than two minor examinations may proceed with other subjects in the following year, carrying such subjects as conditions, but may not sit any subsequent major examinations until the conditions have been removed, nor may he carry more than two conditions at one time.

All conditions must be removed by the end of the first term (November) in each session when additional supplemental examinations will be held. Failure in any of these will require the student to revert to his previous year and to repeat the courses of the Winter and Spring terms.

A student in his final year may take a supplemental examination in one subject only, but must present a certificate from the senior professor of the Department concerned that he has taken extra tuition in this subject in one of the teaching hospitals of the McGill Faculty of Medicine. If he should fail in this supplemental examination, he must repeat the year of study and pass all the major examinations at the completion of the session.

A student in his final year who fails in two subjects will not be permitted supplementals

but must repeat the year or retire, as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student will not be allowed to repeat a year more than once nor may he repeat a subsequent year if such repetition has been due to failure in examinations, except on special recommendation of the Promotion Committee, acting upon the motion of the representatives on the committee of the Department concerned.

A student who has been permitted to repeat his year must attain an overall average of 65% in order to continue in his programme.

There shall be Promotion Committees for each year, consisting of representatives, appointed by the Dean, of the Departments offering major or minor examinations during that year, and the Dean (*ex officio*). Each Committee will pass on all cases of students who fail to satisfy course requirements in the respective year.

No evaluation, examination mark, etc., shall be considered final until passed by the Promotion Committee.

The Faculty reserves the right to require the withdrawal of any student at any time if, in the opinion of his instructors, he is incompetent. There can be no appeal from this decision.

3.8.1

GRADING

In the year 1970-71, a "Pass-Fail" system of evaluation was introduced on a trial basis.

3.9

REQUIREMENTS FOR THE DEGREE OF M.D.,C.M.

1) Every candidate for the degree of Doctor of Medicine and Master of Surgery in this University must be at least twenty-one years of age and of good moral character.

2) He must have fulfilled all the requirements for entrance to the Faculty of Medicine and have attended courses of instruction for four full sessions of not less than nine months each in this University or in some other university, college or school of Medicine, approved by this University.

3) No one is permitted to become a candidate for the degree who has not attended at least two full sessions at this University.

4) Every candidate for the degree must have passed all the required examinations in the subjects comprising the Medical course.

5) He must have attended the practice of the Royal Victoria Hospital or the Montreal General Hospital, or of some other hospital (with not fewer than one hundred beds) approved by this University and the practice of the Montreal Children's Hospital; and must have acted as clinical clerk in medicine, surgery, paediatrics and psychiatry and have fully reported upon the prescribed number of cases.

3.10 REQUIREMENTS FOR LICENCE

6) He must also have attended the practice of the Maternity Hospital or other lying-in hospital approved by the University, and have acted as assistant in at least twenty cases.

7) Every candidate must also have administered anaesthetics, under direction, at least six times.

3.10 REQUIREMENTS FOR LICENCE

Candidates accepted for admission are reminded that it is their personal responsibility to ensure that they fulfil all the licensing requirements of the country in which they intend to practise medicine. A university degree does not confer the right to practise. In each province of Canada, in each one of the United States and in all other countries the authority to license is vested in a licensing body which has its own special laws and requirements. In many cases a special standard of general education is insisted upon before beginning the study of medicine. One of the requirements in several provinces is that the entrance qualifications of the student must be registered with the provincial licensing body for five years before a licence to practise can be obtained.

Candidates accepted for admission should therefore communicate as soon as possible with the licensing body of the country in which they intend to practise and obtain from that licensing body the necessary instructions.

Full information as to the requirements for registration in the various provinces may be obtained from the Registrars of the Provincial Medical Boards as follows:

QUEBEC — Dr. A. Roy, 1440 St. Catherine St. West, Montreal 107, P.Q.

ONTARIO — Dr. J. C. C. Dawson, 64 Prince Arthur Ave., Toronto 5, Ont.

NEW BRUNSWICK — Dr. John R. Nugent, 112 Carleton St., Saint John, N.B.

NOVA SCOTIA — Dr. M. R. Macdonald, Victoria General Hospital, Halifax, N.S.

PRINCE EDWARD ISLAND — Dr. R. G. Lea, 170 Fitzroy St., Charlottetown, P.E.I.

MANITOBA — Dr. M. T. Macfarland, 201 Kennedy St., Winnipeg 1, Man.

ALBERTA — Dr. R. Woolstencroft, 9901-108th Street, Edmonton, Alta.

SASKATCHEWAN — Dr. G. W. Peacock, 932 Spadina Crescent E., Saskatoon, Sask.

BRITISH COLUMBIA — Dr. W. G. McClure, 1807 West 10th Avenue, Vancouver 9, B.C.

NEWFOUNDLAND — Dr. G. M. Brownrigg, 47 Queens Road, St. John's, Newfoundland.

3.10.1 MEDICAL COUNCIL OF CANADA

In order to take the examination of the Medical Council of Canada a candidate must have the

licence of a Canadian province, or he must present a certificate from the Registrar of a Provincial Medical Board to the effect that he holds qualifications accepted and approved of by the Medical Board of that province.

Full information may be obtained by writing to the Registrar, Box 8234, 1867 Alta Vista Drive, Ottawa, Ontario, Canada.

3.10.2 GENERAL COUNCIL OF MEDICAL EDUCATION OF GREAT BRITAIN

The entrance requirements in Medicine of this University are accepted by the General Medical Council of Great Britain. Graduates of this University who desire to register in England are exempted from any examination in preliminary education on production of the McGill Matriculation certificate. Certificates of this University for attendance at lectures, practical work, and clinics are also accepted by the various examining boards in Great Britain.

Detailed information may be obtained from the Registrar, General Council of Medical Education and Registration, 44 Hallam Street, Portland Place, London, W.1, England.

3.11 GRADUATE PROGRAMMES LEADING TO DIPLOMAS IN THE CLINICAL DEPARTMENTS OF THE FACULTY OF MEDICINE

The Faculty of Medicine conducts graduate courses leading to Diplomas in Anaesthesia, Diagnostic Radiology, Neurology, Neurosurgery, Psychiatry, Radiotherapy and Urology.

3.11.1 INQUIRIES

Initial inquiries and inquiries of a general nature should be addressed to the Associate Dean (Postgraduate Medical Education) of the Faculty of Medicine.

Inquiries about the details of individual diploma programmes should be addressed to the Chairman of the department concerned.

3.11.2 REQUIREMENTS FOR ENTRANCE

The minimum requirements for entrance to a diploma programme are (a) a degree from an approved medical college or school and (b) at least one year's internship. Details of the requirements are set forth under the individual diplomas.

Credit may be given for study completed elsewhere than at McGill University, but to qualify for a diploma, the student must spend at least two years of graduate study and training in a clinical department of the Faculty of Medicine of McGill University.

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3.11.3 APPLICATION FOR ADMISSION

Application for admission to the diploma programmes should be made directly to the Chairman of the department concerned.

3.11.4 FEES

There is a registration fee of fifteen dollars to be paid each year on registration except when the student is enrolled in the Faculty of Graduate Studies and Research.

3.11.5 REGISTRATION

The various diploma programmes in the clinical departments of the Faculty of Medicine lead to the award of diplomas by McGill University. Every student enrolled in such a programme must therefore register in the Faculty of Graduate Studies and Research of McGill University.

On beginning the actual course of study leading to a diploma, the candidate must complete the inscription form required for all postdoctoral students in the Faculty of Medicine. These inscription forms are available in the office of the Chairman of the department concerned, or at the office of the medical director of the McGill University Teaching Hospitals and the Affiliated Hospitals. These forms, when completed by the student, will be forwarded to the Registrar of McGill University. During the early part of the academic year the student will receive registration forms mailed to him by the Registrar. Registration and payment of fees can then be completed by mail and *must be carried out annually* during each year of the diploma programme.

If, during his academic year, the student is also enrolled for an M.Sc. or a Ph.D. in the Faculty of Graduate Studies and Research, he must complete the procedure described above in addition to those required by the Faculty of Graduate Studies and Research for degree candidates, except that a registration fee for the diploma programme is not required in that particular year.

It is the responsibility of the student to ensure that the inscription form is completed and that registration and payment of fees are carried out.

3.12 GRADUATE STUDIES AND RESEARCH IN THE MEDICAL SCIENCES

Facilities for graduate work in the basic medical sciences and in the clinical sciences are offered by many of the Departments of the Faculty of Medicine.

Research in relation to clinical disciplines is carried out in the research laboratories at the Montreal Children's Hospital, the Montreal General Hospital and the Royal Victoria Hospital. Graduate work in the clinical sciences is supervised by those members of the Departments of Medicine, Surgery and Paediatrics who are responsible for the direction of research programmes; and for administrative purposes graduate work in these areas is grouped under the Department of Experimental Medicine, and the Division of Experimental Surgery, which is branch of the Department of Surgery.

Inquiries concerning research education in the medical sciences may be directed to the appropriate Departmental Chairman or to:

Associate Dean for Graduate Studies &

Research

The Faculty of Medicine

McGill University

P.O. Box 6070, Montreal 101, Quebec.

3.12.1 ENROLMENT AS A PARTIAL STUDENT IN FACULTY OF GRADUATE STUDIES AND RESEARCH

In the case of a student who is not proceeding to an M.Sc. or Ph.D. degree, but for whom the committee in charge, on the recommendation of the tutor, considers it important that the student should spend some time in study in one of the medical sciences, individual arrangements will be made by the Chairman of the department, either directly or through the student's tutor with the Chairman of the medical science concerned. Such students will be enrolled in the Faculty of Graduate Studies and Research and will be governed by the rules and regulations of this Faculty in regard to fees, etc., applicable to partial students.

4

COURSES OF INSTRUCTION

4.1 ANAESTHESIA

4.1.2 UNDERGRADUATE COURSES

501-121M. A student in Medicine, before reaching that part of the curriculum which deals with clinical anaesthesia, will have acquired during his earlier years at the university an introduction into the Basic Sciences on which the discipline of Anaesthesia is based.

501-221M. During the Second year a series of lectures is presented on clinical anaesthesia and its related areas. At these sessions the

student is instructed in the Physiopathology of patients undergoing anaesthesia and surgery, the basic properties of anaesthetic drugs and the principles underlying anaesthetic techniques. This series will serve as a background for the administration of anaesthesia and the care of patients undergoing surgery.

501-321M. 501-421M. In the Third and Fourth years there is an opportunity for the student, while undertaking his surgical training, to spend some time with an anaesthetist in the operating room.

4.1.3**ELECTIVES**

Major electives are offered during the Second Third and Fourth years. Details of this programme are published in a separate *Elective Catalogue*. Detailed information can be obtained from the Associate Dean (Medical Education). An elective is also offered during any of the undergraduate years to work in one of the anaesthesia laboratories.

4.1.4**POSTGRADUATE AND CONTINUING EDUCATION****4.1.4.1 Diploma in Anaesthesia (Dip. Anaes.)**

Minimum prerequisites for entry to the Diploma Programme in Anaesthesia are a degree from an approved medical college or school and one year's rotating internship in an approved hospital. Foreign students may be subject to further requirements such as the E.C.F.M.G.

Applications for admission should be addressed to the Chairman, Department of Anaesthesia, McGill University, 3801 University St., Montreal.

The programme is of three years duration. Up to one year of credit may be given for work done elsewhere at a centre approved by the Chairman. Candidates, once enrolled, may under certain circumstances spend one of the three years at another centre, provided this meets with the approval of the Chairman of the department. In all instances, to qualify for the Diploma the student must spend at least two years of graduate study in the Department of Anaesthesia of McGill University.

Each student is assigned for clinical work to one of the participating hospitals. Having spent twelve months in the hospital to which he was first posted, the student is then rotated every six months through a number of hospitals within in this framework. Some of the hospitals are specialized and others are general.

During each appointment of six months, the Residents are directed by the staff members of the particular hospital where that residency is being served. Seminars are held weekly according to a programme which is the same for all hospitals. Some departments hold sessions which are set aside for review of the literature, while others have special sessions for the discussion of interesting cases. All the hospitals have excellent library facilities, and the libraries of the medical faculty are also accessible.

On the first Monday in each month there is a departmental meeting moderated by the Chairman. There may be presentation of cases of interest, recent advances or a guest speaker.

Every second month a written examination, which refers to the seminar subjects of the previous two months, is set for all residents.

4.1.4.2 Postgraduate Basic Science Lectures

A two-year Basic Science programme is followed at weekly lectures.

The granting of the Diploma is subject to complete satisfaction in all the clinical rotations and Applied Basic Science courses. The Chairman and Chiefs of clinical departments

reserve the right to dismiss at any time all those whose work is unsatisfactory or who appear to have chosen the wrong medical specialty.

Interested students may be selected to follow courses leading to higher degrees, in the Wellcome Anaesthesia Research Department.

4.1.4.3**Annual Advanced Course
In Anaesthesia**

This course is held during the month of May and is open to those sitting examinations in the fall and to those already in anaesthetic practice. At this course, the Wesley Bourne lecturer participates in the teaching sessions.

A clinical refresher course lasting one week is held annually at the Royal Victoria Hospital during the month of February.

4.1.4.4**Guest Professor**

Annually, a visiting professor spends a week in the Clinical Departments.

Further information on any aspect of this Department can be obtained by writing to the Chairman, Department of Anaesthesia, McGill University.

4.2 ANATOMY**Required Courses**

1. **GROSS ANATOMY** 501-121M. Dissection and lectures cover the gross anatomy of the body. The course includes Embryology, Surface and Radiological Anatomy and an introduction to Clinical Anatomy.
2. **INTRODUCTION TO THE CENTRAL NERVOUS SYSTEM** 501-221M. For Second year students and conducted with the co-operation of the Departments of Neurology and Neurosurgery. Physiology and Psychology. This course is listed under the Department of Neurology and Neurosurgery 531-221M.
3. **APPLIED ANATOMY.** Designed for graduate students.
Texts: E. Gardner, D. J. Gray, R. O'Rahilly, *Anatomy*, 2nd ed. (W. B. Saunders, 1963); D. F. Davies, *Gray's Anatomy*, 34th ed. (Longmans, 1967); J. C. B. Grant, *An Atlas of Anatomy*, 5th ed. (Williams and Wilkins, 1962); J. T. Aitken et al., *A Manual of Human Anatomy*, 2nd ed., 5 vols. (Livingstone, 1964); J. Langman, *Medical Embryology* (Williams and Wilkins, 1963).

Electives

Major electives are offered during the Second, Third and Fourth years. Details of this programme are published in a separate *Elective Catalogue*. Detailed information can be obtained from the Associate Dean (Medical Education).

4. **ADVANCED NEURO-ANATOMY.** Lecture and laboratory work on two evenings per week from October to December. By arrangement the course is held in the Neurological Institute under the direction of Dr. McNaughton. The class is limited to ten. The course consists of the construction of plasticine models of the brain, based on individual study of the brain and brain stem.

4.2.1**MICROSCOPIC ANATOMY****Required Course**

6. HISTOLOGY. *The study of the cytology and structure of tissues and organs.* Texts: A. W. Ham, *Histology*, 5th ed. (Lippincott, 1965); W. Bloom and D. W. Fawcett, *A Textbook of Histology*, 8th ed. (Saunders, 1962).

4.2.2**EMBRYOLOGY****Required Course**

8. THE STUDY OF HUMAN DEVELOPMENTAL ANATOMY. This course is integrated with 1. Gross Anatomy. Texts: J. Langman, *Medical Embryology* (Williams and Wilkins, 1963); L. A. Arey, *Developmental Anatomy*, 6th ed. (Saunders, 1954); W. J. Hamilton et al., *Human Embryology*, 2nd ed. (Heffer, 1952). For graduate courses, see the Announcement of the Faculty of Graduate Studies and Research.

4.3 BIOCHEMISTRY**4.3.1****FIRST YEAR
(507-121M)**

Two periods of lectures and clinical demonstrations and four hours of laboratory work per week. An Endocrinology course given jointly with the Departments of Physiology, Anatomy, and Obstetrics and Gynaecology is included in the Biochemistry course.

4.3.2**ELECTIVES**

A limited number of students in their Second, Third and Fourth years may take their ten week elective periods in the Department. Students will be assigned original research projects in the Department and under the direction of a member of its staff. They will also take part in all Departmental and group seminars and audit graduate courses. Students who plan to spend all three elective periods on one project will be particularly welcome and may hope to complete a useful piece of research.

4.3.3 OPTIONAL ADDITIONAL COURSES

For students who are interested in additional studies in Biochemistry current undergraduate and graduate courses in biochemistry are recommended. (See the Announcements of the Faculty of Arts and Science and the Faculty of Graduate Studies and Research.)

4.4 EPIDEMIOLOGY AND HEALTH**4.4.1****REQUIRED COURSES**

BIOLOGY OF DISEASE. *This course replaces the previous course in Epidemiology and Health (120 hours).*

4.4.1.1**FIRST YEAR
(513-121M)**

GENERAL BIOLOGY OF DISEASE. *A co-ordinated course to be presented by the Departments of Epidemiology and Health, Genetics, Microbiology and Immunology, and Pathology during*

the third and fourth quarters. The course will be centred around the concept that disease results in the individual through the interaction of host and environmental factors.

4.4.1.2**SECOND YEAR****(513-221M)**

BIOLOGY OF DISEASE. *A twenty-three week co-ordinated programme during the first, second and third quarters which will present a general introduction followed by an organ-system approach to disease.*

The contribution of the Department of Epidemiology and Health to this programme will include the epidemiology of the main diseases, the factors influencing prevention, and control of disease. The organization of public health, occupational and medical care services is considered within the Introduction to Clinical Studies. Substantial time is given to small group project work during the course.

(2nd yr.). MEDICAL JURISPRUDENCE. *Course of 9 lectures by speakers from the Faculty of Law.*

4.4.2**ELECTIVE COURSES**

STATISTICAL PROCEDURES IN MEDICINE. *Full time course of tuition and laboratory work on statistical methods and study design relevant to epidemiology and other medical disciplines. Personal investigation is also made. Limited to 5 students. (May, June).*

PRINCIPLES OF EPIDEMIOLOGY AND MEDICAL STATISTICS. *Full time course, part time tuition over four weeks, together with personal research on a problem chosen by the student. Limited to 5 students. (September, October).*

EPIDEMIOLOGY. *Full time course, half given to review in depth of selected epidemiological problems, the remainder to personal research. Limited to 5 students. (Beginning mid-January).*

OCCUPATIONAL AND ENVIRONMENTAL MEDICINE. *Full time course of tuition and laboratory work dealing with the effects of the working environment on health including practical experience in industry and opportunity for personal investigation. Limited to 5 students. (November-December).*

RESEARCH PROJECT. *Supervision is available for any student with particular interest in a field of work within the province of the department to carry out, by arrangement, an agreed study project.*

4.5 HISTORY OF MEDICINE**4.5.1****REQUIRED COURSE**

HISTORY OF MEDICINE 522-121M (First year). *A series of 20 lectures providing a survey of the natural, social and intellectual background to modern medicine.*

From time to time, and at the request of other departments, single lectures are given on the history of special subjects within courses being taught by those departments.

4.5.2**ELECTIVE**

ADVANCED WORK AND RESEARCH. *Opportunity is offered for a limited number of students to pursue advanced work or research in the history and philosophy of medicine, its sciences, and public health. See Elective Catalogue for details.*

4.6 MEDICINE

4.6.1 THE UNDERGRADUATE CURRICULUM IN THE DEPARTMENT OF MEDICINE

The object of the medical curriculum is to encourage in each student the development of critical judgment as he acquires a sound knowledge of the Basic Sciences essential to an understanding of disease processes, and supervised experience in their recognition and treatment of disease in a clinical setting. Personal contact between students and instructors at all levels is emphasized, and increasing use is made of new instructional aids.

A thorough understanding of the mechanisms of disease is provided by the Basic Science portion of the curriculum. This is consolidated and enhanced in the clinical years by association in the teaching hospitals with medical scientists working in the modern scientific laboratories devoted to clinical investigation. Every attempt is made to provide individual instruction wherever possible. Emphasis is given to a sympathetic understanding of the problems of sick individuals, as well as the treatment of their specific illnesses.

4.6.1.1

Required Courses

SECOND YEAR (525-221M)

INTRODUCTION TO CLINICAL SCIENCES.

Time

Third term of Second year: ten weeks (mornings).

Place

The Teaching Hospitals.

Subject Material

Students are given intensive instruction in basic clinical skills. They are also taught how to perform routine laboratory tests. Ample opportunity is then available for them to practise these clinical skills on the wards of the teaching hospitals. Students are assigned cases for complete clinical workup. These cases are written up and presented to an experienced clinical instructor. Although emphasis is placed on learning how to take a meaningful history and perform an accurate physical examination, students are also encouraged to begin to develop skill in diagnosis and investigation of a patient's problems. They are expected to read in the general texts around the cases which they encounter.

THIRD YEAR (525-321M)

BLOCK TEACHING IN MEDICINE. For a period of 9 weeks, each student spends his full day on the wards of one of the teaching hospitals. He studies individual cases, writes case reports, presents cases at the bedside, does routine laboratory tests on them, and perfects the skills he acquired in Second year. His work is closely supervised by Teaching Fellows, and bedside clinics are conducted at least twice a week by his Attending Staff instructor. Further assistance in understanding the meaning of the clinical expression of the diseases he encounters is provided for by intensive reading. There are regular instructional periods in Ophthalmology, Dermatology, Radiology, and Electrocardiography. Physician-In-Chief rounds are held weekly.

FOURTH YEAR

Extensive experience in Medicine is provided in the Fourth year. The senior student becomes integrated into the team of staff, residents and internes, with an increasing share in the responsibility for the care of patients on the wards and in the Outpatient Department. An intramural programme of seminar teaching in specialty subjects is provided as well during this time.

ELECTIVES

Major electives are offered during the Second, Third and Fourth years. Details of this programme are published in a separate *Elective Catalogue*. Additional information can be obtained from the Associate Dean (Medical Education).

4.6.2

EXPERIMENTAL MEDICINE

General Statement

The Department offers courses leading to the M.Sc. and Ph.D. degrees in the Faculty of Graduate Studies and Research and provides research facilities for these students or for other persons proceeding to graduate degrees, diplomas or for other qualified individuals.

Students may work in the laboratories of their supervisors who will be staff members of the Department of Experimental Medicine.

Students holding the M.D. degree or its equivalent may be registered for a degree provided that their standing is acceptable. Students holding the B.Sc. degree may register provided that their standing is acceptable. The latter will be required to complete a programme equivalent to that which they would undertake if registered in a basic science department. (See Section D of the *Announcement of the Faculty of Graduate Studies and Research* for further details.)

The Ph.D. candidate will be required to translate, with the aid of a dictionary, from one language only other than English. The language chosen should be French or German, or Russian.

In the session 1969-70 the Department of Investigative Medicine was merged with the Department of Experimental Medicine. Students registered in the Department of Investigative Medicine at that time will continue their studies and when they graduate will do so from the Department of Experimental Medicine. The Fall Convocation (1969) was the last one at which students graduated from the Department of Investigative Medicine.

Those students who are presently registered in the Department of Investigative Medicine will not be required to fulfil the Ph.D. Language requirement of the Department of Experimental Medicine, but those registered for the first time in the session 1968-69 and thereafter will be required to do so.

4.7 MICROBIOLOGY AND IMMUNOLOGY

All lectures and laboratory periods are held in the Pathological Institute.

MEDICINE

BIOLOGY OF DISEASE. This course replaces the previous course in Medical Microbiology given in Second year.

4.7.1

FIRST YEAR (528-121M)

GENERAL BIOLOGY OF DISEASE. A co-ordinated course to be presented by the Departments of Epidemiology and Health, Microbiology and Immunology, and Pathology during the third and fourth quarters. The course will be centred around the concept that disease results in the individual through the interaction of host and environmental factors.

4.7.2

SECOND YEAR (528-221M)

BIOLOGY OF DISEASE. A twenty-three week co-ordinated programme during the first, second and third quarters which will present a general introduction followed by an organ-system approach to disease.

25. DENTAL MICROBIOLOGY.

4.7.3

ELECTIVES

Major electives are offered during the Second, Third and Fourth years. Details of this programme are published in a separate *Elective Catalogue*. Detailed information can be obtained from the Associate Dean (Medical Education).

4.7.4

OTHER COURSES

The Department offers a range of courses leading to the Honours B.Sc. in Microbiology and is well-equipped for graduate research leading to the M.Sc. and Ph.D. degrees. Training in clinical microbiology is available in the service laboratories of the Royal Victoria Hospital and the Montreal Neurological Institute located in the Department.

See the *Announcements* of the Faculty of Arts, Science and the Faculty of Graduate Studies and Research.

4.8 NEUROLOGY AND NEUROSURGERY

4.8.1

SECOND YEAR (531-221M)

INTRODUCTION TO THE CENTRAL NERVOUS SYSTEMS. Combined course given by the Departments of Anatomy, Neurology and Neurosurgery, Physiology and Psychology. Lectures, laboratory work and clinical demonstrations during the first and second quarters.

PROFESSORS MCNAUGHTON, GLOOR
AND STAFF

INSTRUCTION IN CLINICAL EXAMINATION OF THE NERVOUS SYSTEM. Given in conjunction with the Department of Medicine in the third term.
PROFESSOR ROBB AND STAFF

NEUROPATHOLOGY. Given in conjunction with the Department of Pathology.
PROFESSORS MATHIESON AND CARPENTER

4.8.2

THIRD YEAR (531-321M)

CLINICS AND CONFERENCES IN CONJUNCTION WITH THE DEPARTMENTS OF MEDICINE AND SURGERY.

PROFESSORS RASMUSSEN, ROBB,
BAXTER, WATTERS AND STAFF

4.8.3

FOURTH YEAR (531-421M)

CLINICS AND CONFERENCES IN CONJUNCTION WITH THE DEPARTMENTS OF MEDICINE AND SURGERY.

PROFESSORS RASMUSSEN, ROBB,
BAXTER, WATTERS AND STAFF

4.8.4.

ELECTIVE PROGRAMME

Ten week periods of clinical clerkship or supervised research in one of the Neurosciences for Second, Third and Fourth year medical students. Consult *Elective Catalogue* for details.

4.8.5

DIPLOMA IN NEUROLOGY (Dip. Neurol.)

Minimum prerequisites for entry to the Diploma Programme in Neurology are a degree from an approved medical college or school and one year's internship in an approved hospital.

Applications for admission should be addressed to the Chairman, Department of Neurology and Neurosurgery, McGill University.

The programme is of four years' duration and consists of the following units:

A. One year of work in one of the related basic sciences, such as neuropathology, neurophysiology (including E.E.G.), neuroanatomy, neurochemistry, neuroradiology, endocrinology, etc. The work may be carried out as arranged either in the Department of Neurology and Neurosurgery, or in some other department of McGill University on the recommendation of the Chief of the Service and with the approval of the Chairman of the Department of Neurology and Neurosurgery. Preparation of a thesis or a paper approved for submission for publication by the Laboratory Chief, and the Professor of Neurology and Neurosurgery (Dr. Rasmussen), will be required. This year may be used for work towards the M.Sc. degree in the Faculty of Graduate Studies and Research of McGill University (see the *Announcement of the Faculty of Graduate Studies and Research* for requirements and registration procedure).

B. Six months in psychiatry in the Department of Psychiatry at McGill University. (**Note:** Under special circumstances the candidates may substitute six months in the Department of Psychiatry in some other accredited hospital or university or additional training in neurology or medicine.)

C. Six months in neurosurgery at the Montreal Neurological Institute. (**Note:** Under special circumstances a candidate may substitute neurosurgical training received in the neurosurgical department of some other accredited hospital or university or additional training in neurology or medicine.)

D. Two years in clinical neurology, one of which must be at the Montreal Neurological Institute. The other year may be taken at other

neurological centres with the approval of the Professor of Neurology and Neurosurgery and on recommendation of the Chief of the Neurological Service.

Before receiving the Diploma the candidate must successfully pass an oral examination in clinical neurology and neurosurgery.

Further information may be obtained by writing the Chairman, Department of Neurology and Neurosurgery, McGill University.

4.8.6 DIPLOMA IN NEUROSURGERY (Dip. Neurol. Surg.)

Minimum prerequisites for entry to the Diploma Programme in Neurosurgery are a degree from an approved medical college or school and one year's surgical internship in an approved hospital.

Applications should be addressed to the Chairman, Department of Neurology and Neurosurgery, McGill University.

The programme is of four years' duration and consists of the following units:

A. One year of work in one of the related basic sciences, such as neuropathology, neurophysiology (including E.E.G.), neuroanatomy, neuroradiology, endocrinology, etc. The work may be carried out as arranged either in the Department of Neurology and Neurosurgery, or in some other department of McGill University on the recommendation of the Chief of the Service and with the approval of the Chairman of the Department of Neurology and Neurosurgery. Preparation of a thesis or a paper approved for submission for publication by the Laboratory Chief and the Professor of Neurology and Neurosurgery (Dr. Rasmussen), will be required. This year may be used for work towards the M.Sc. degree in the Faculty of Graduate Studies and Research of McGill University (see *Announcement of the Faculty of Graduate Studies and Research* for requirements and registration procedure).

B. Six months in clinical neurology at the Montreal Neurological Institute. (**Note:** Under special circumstances, credit for six months of clinical neurology in some other accredited hospital or university department of neurology or additional training in surgery, medicine or neurological surgery may be accepted.)

C. Two and a half years in clinical neurosurgery at the Montreal Neurological Institute and associated hospitals.

Note: Unit C, and either Unit A or B must be carried out at the Montreal Neurological Institute.

Before receiving the Diploma the candidate must successfully pass a final oral examination on clinical neurology and neurosurgery.

Further information may be obtained by writing the Chairman, Department of Neurology and Neurosurgery, McGill University.

For graduate courses in neurology and neurosurgery, see also the *Announcement of the Faculty of Graduate Studies and Research*.

4.9 OBSTETRICS AND GYNAECOLOGY

4.9.1 UNDERGRADUATE PROGRAMME

The course is designed to impart a fundamental knowledge, in theory and practice, of the processes of human parturition and gynaecology. The student is introduced to the subject in the First year. In Second year during the winter term, a course is devoted to obstetrics and gynaecological history-taking and clinical and laboratory techniques for diagnosis as part of the integrated Introduction to Clinical Sciences Course.

Thereafter in Fourth year, intensive teaching is carried out using to the full the facilities of the Royal Victoria-Montreal Maternity Hospital, the Montreal General Hospital, the Catherine Booth Hospital and the Reddy Memorial Hospital.

4.9.1.1

Required Courses

FIRST YEAR (534-121M). Fourteen hours are devoted during the final quarter of the First year to a coordinated intensive introduction to human reproductive biology, using as a model concurrent studies in the fields of embryology, anatomy and the particular biochemical and endocrine aspects of the subject. The course closes with a description of the physiology of pregnancy and labour. This course amplifies and defines those aspects of the Behavioural Sciences concerning reproduction which are taken during the same teaching term.

SECOND YEAR (534-221M). During this year the student is introduced to the clinical diagnosis of the female patient as part of the Introduction to Clinical Sciences Programme.

FOURTH YEAR (534-421M). During an 8 week period in the teaching hospitals students "live in" and participate fully as clinical clerks in all phases of the research, investigative and specialized work of the department. Following the prepared programme ensures that the student will proceed to his final oral examinations exposed to all phases of obstetrics and gynaecology.

4.9.1.2

Electives

Major electives are offered during the Second, Third and Fourth years. Details of this programme are published in a separate *Elective Catalogue*. Detailed information can be obtained from the Associate Dean (Medical Education).

Textbooks: N. J. Eastman and L. M. Hellman, *Obstetrics* (Appleton); Jeffcoate, *Principles of Gynaecology* (Butterworth); Ralph C. Benson, *Handbook of Obstetrics and Gynaecology*.

Ancillary Reading: (1) Harry Oxorn and W. R. Foote, *Human Labour and Birth* (Appleton, 1967). (2) Danforth, *Textbook of Obstetrics and Gynaecology* (Harper & Row).

4.9.2

GRADUATE PROGRAMME

The Department of Obstetrics and Gynaecology directs a four-year graduate programme involving residency training in a number of English-

speaking hospitals in Montreal, with lectures and seminars in both pre-clinical and clinical fields and opportunities for research. Minimum prerequisites for entry into this programme are a degree from an approved Medical College or School, with a full approved Clinical Clerkship in the Final Year, or one year's rotating internship. One year of General Surgery residency or half a year each of General Medicine or General Surgery are required in the four-year programme, which may be taken before or during the programme, with credit duly allowed if taken before.

Straight internships in Obstetrics and Gynaecology are also offered at the Royal Victoria-Montreal Maternity Hospital and the Montreal General Hospital.

Further information may be obtained by writing the Chairman, Department of Obstetrics and Gynaecology, McGill University.

4.10 OPHTHALMOLOGY

4.10.1 UNDERGRADUATE COURSES

The undergraduate work in Ophthalmology is designed to meet the needs of a well-trained general practitioner and embraces the following courses:

4.10.1.1

Second Year (537-221M)

- ROUTINE EXAMINATION OF THE EYE. *The various tests used in routine examination of the eye are demonstrated. Instruction in the use of ophthalmoscope is emphasized.* 5 hours.
- PATHOLOGY OF THE EYE. (6 hours: two periods of 3 hours each).
- LECTURES TO THE ENTIRE CLASS. *A survey of the entire field designed to furnish a background of essential information for the clinical work.* (9 hours).

4.10.1.2

Third Year (537-321M)

- PRACTICAL OPHTHALMOSCOPY. Montreal General and Royal Victoria Hospitals. (9 hours).

4.10.1.3

Fourth Year (537-421M)

- PRACTICAL CLINICAL OPHTHALMOLOGY. *Cases from the eye outpatient and indoor services are presented and discussed. Emphasis is on ocular problems that are of greatest moment in general practice.* (9 hours).

4.10.1.4

Electives

Major electives are offered during the Second, Third and Fourth years. Details of this programme are published in a separate *Elective Catalogue*. Detailed information can be obtained from the Associate Dean (Medical Education).

Texts: Francis H. Adler, *Textbook of Ophthalmology*, 7th ed. (Saunders, 1962); J. H. Allen, *May's Manual of the Diseases of the Eye*, 23rd ed. (Williams & Wilkins, 1963); Sidney Lerman, *Basic Ophthalmology* (Blakiston Divn., McGraw-Hill, 1966).

References: W. S. Duke-Elder, *System of Ophthalmology*, 7 vols. (Kimpton, 1958-67); W. S. Duke-Elder, *Textbook of Ophthalmology*, 7 vols. (Mosby, 1932-54); Eugene Wolff, *Anatomy of the Eye and Orbit* (Blakiston, 1954); Eugene Wolff, *Pathology of the Eye*, 3rd ed. (Blakiston, 1951); Francis H. Adler, *Physiology of the Eye*, 4th ed. (Mosby, 1965).

4.10.2

GRADUATE PROGRAMME

The Montreal General and Royal Victoria Hospitals each conduct graduate programmes of residency training, with rotations to the Montreal Children's Hospital. There is an integrated lecture course in the clinical and basic sciences of Ophthalmology. These programmes prepare candidates to meet the requirements for Fellowship of the Royal College of Surgeons of Canada and also the American Board of Ophthalmology. Detailed information may be obtained by writing the Ophthalmologist-in-Chief of each hospital.

4.11 OTOLARYNGOLOGY

4.11.1 UNDERGRADUATE COURSES

Instruction in Otolaryngology is given to students in the 1st, 2nd, 3rd and 4th years and is designed to cover the basic principles and clinical aspects of the specialty. Clinical courses are conducted on the Wards and in the Outpatient Departments of the Royal Victoria Hospital and the Montreal General Hospital. As much as possible, demonstrations are carried out before small groups of students.

4.11.1.1

First Year (540-121M)

An introductory course in clinical anatomy pertaining to the ear, nose and throat is presented during the First year. The emphasis is upon demonstration of normal anatomy and methods of physical examination.

4.11.1.2

Second Year (540-221M)

The academic year 1968-69 saw the introduction of a new course, "Introduction to the Clinical Sciences". The Department of Otolaryngology actively participates in this course, providing six hours of instruction in otolaryngological history taking and methods of physical examination. At the conclusion of these presentations, the student should be fully conversant with medical transcript as it pertains to Otolaryngology, as well as with the instrumentation used in patient examination. Emphasis will not be placed upon ear, nose and throat disorders, as such, but rather upon the examination of the normal patient.

4.11.1.3

Third Year (540-321M)

"Block Time" clinical instruction is given to small groups of students formed into sessions of six mornings per group. In these sessions didactic lectures are given relating to ear, nose

4.11 OTOLARYNGOLOGY

and throat disorders and the students are given the opportunity to conduct examination on hospital patients with demonstration of ear, nose and throat pathology as such.

4.11.1.4

Fourth Year (540-421M)

Clinical clerkships were introduced in the academic year 1969-70. In the Department of Otolaryngology the student is incorporated as a house officer during this period and thereby attends clinics, conducts patient examination under supervision, participates in ward rounds, weekly conferences and observes in the Operating Theatres. The students are encouraged to make presentations during this "living in" period and openly discuss the current problems seen under these circumstances.

4.11.1.5

Elective Opportunities

The Department of Otolaryngology offers elective opportunities to the 2nd, 3rd and 4th year medical students in both research and clinical divisions. Since the introduction of the elective scheme in 1969 the Department of Otolaryngology has offered elective opportunities both in research and clinical studies to four students per quarter.

4.11.2

GRADUATE PROGRAMME

A residency training programme in Otolaryngology on the graduate level is conducted with rotation through the Royal Victoria, Montreal General and Montreal Children's Hospitals. This four year programme which includes one year of General Surgery is designed to prepare the candidate for the Certification and Fellowship examinations of the Royal College of Physicians and Surgeons of Canada and the examinations of the American Board of Otolaryngology. More detailed information may be obtained by writing to the Otolaryngologist-in-Chief, Royal Victoria Hospital, Montreal 112, Quebec.

A degree of M.Sc. in Otolaryngology is also available for students who have obtained their M.D. with appropriate prerequisites. More detailed information is available in the *Announcement of the Faculty of Graduate Studies and Research*.

4.12 PAEDIATRICS

4.12.1

REQUIRED COURSES

4.12.1.1

First and Second Years (543-121M; 543-221M)

Introduction to Paediatrics is provided by the Staff of the Department of Paediatrics in the Behaviour Course given to First year and The Introduction to Clinical Sciences Course, presented in the last term of Second year.

4.12.1.2

Fourth Year (543-421M)

A 9 week clerkship in paediatrics as a member of a clinical ward service provides the opportunity for experience in the management of

paediatric problems under supervision. In addition to regular ward rounds, clinical pathological conferences and grand rounds, the clinical clerks participate in a series of conferences structured to provide a review of the essentials of paediatrics.

4.12.2

ELECTIVES

Twenty major elective opportunities available to 2nd, 3rd and 4th year students include clinical and ambulatory paediatrics, paediatric subspecialties and paediatric research including biochemical genetics, endocrinology, neonatology, nephrology and cardio-respiratory investigation. Details of this programme are published in a separate *Elective Catalogue*. Further information can be obtained from the Associate Dean (Medical Education).

4.13 PATHOLOGY

4.13.1

REQUIRED UNDERGRADUATE COURSES

1. BIOLOGY OF DISEASE. This course replaces the previous course in General Pathology (100 & 101) — 120 hours and the course in Special Pathology (200 & 201) — 150 hours.
2. GENERAL BIOLOGY OF DISEASE (FIRST YEAR). (546-121M). A co-ordinated course to be presented by the Departments of Epidemiology & Health, Genetics, Microbiology and Immunology, and Pathology during the third and fourth quarters. The course will be centred around the concept that disease results in the individual through the interaction of host and environmental factors.
3. BIOLOGY OF DISEASE (SECOND YEAR). 546-221M). A twenty-three week coordinated programme during the first, second and third quarters which will present a general introduction followed by an organ-system approach to disease.
4. COURSE IN APPLIED PATHOLOGY (THIRD YEAR). (546-321M, 300). Weekly clinico-pathological conferences throughout one section of the Third year totalling 18 hours.

COURSE ADMINISTRATOR, DR. J. KNAACK

4.13.1.1

Electives

Major electives are offered during the Second, Third and Fourth years. Details of this programme are published in a separate *Elective Catalogue*. Detailed information can be obtained from the Associate Dean (Medical Education).

4.13.2

GRADUATE COURSES

See the *Announcement of the Faculty of Graduate Studies and Research*.

4.14 PHARMACOLOGY AND THERAPEUTICS

The basic medical course in Pharmacology and Therapeutics is designed to provide a systemat-

MEDICINE

ic coverage of the pharmacodynamics of the more important groups of drugs, the factors that control and modify their effects, and the basis for selection and use of drugs in the treatment of disease.

SECOND YEAR. (549-221M). Three hours a week during the third quarter.

THIRD YEAR. (549-321M). Two hours a week throughout the year.

ELECTIVES

Facilities are available for a limited number of students to undertake research in pharmacology in any year of their medical course or during the summer. Work in clinical pharmacology can also be arranged for students in the Third and Fourth years of the medical programme.

4.15 PHYSIOLOGY

FIRST YEAR

552-121M. Course of human system Physiology for students without previous physiology courses. Lectures and demonstrations: Three hours a week.

552-521M. Medical/Physiology Laboratory programme. Emphasis on the physiological background of clinical physiology function testing.

Students who, on entering medicine, have already taken Physiology 211 or more advanced courses in Physiology, will be required to take course 552-521M but may select two of the graduate courses of the Department in place of course 552-121M.

SECOND YEAR (552-221M)

ANATOMY AND PHYSIOLOGY OF THE CENTRAL NERVOUS SYSTEM. Two hours lectures, two hours laboratory, and one hour demonstration a week, during the second term. This is one course, given by the Departments of Anatomy, Neurology and Neurosurgery, and Physiology.

OTHER COURSES

For other undergraduate courses in Faculty of Arts and Science, see the Announcement of that Faculty.

For graduate courses, see the Announcement of the Faculty of Graduate Studies and Research.

4.16 PSYCHIATRY

4.16.1 REQUIRED UNDERGRADUATE COURSES

FIRST YEAR. 555-121M. LECTURES AND DEMONSTRATIONS — BEHAVIOUR, GROWTH AND DEVELOPMENT COURSE. I. (Total time — 108 hours). This is an inter-departmental course which is given throughout the whole of the first year.

Committees of teachers, many of whom represent clinical departments, introduce the student to the medical role. The course, which has some sixty instructors, teaches by means

of the introduction of patients and actual clinical situations using audio/visual aids. In this way it demonstrates many aspects of the life and work of doctors in a wide variety of fields. The didactic material is kept at a minimum.

The course begins with interviewing, then passes on to psychosomatic medicine and ethical considerations. An introductory survey is given of social medicine, utilizing participation techniques, the influence of medicine on society, and vice versa. Subsequently, the psychology of the individual is dealt upon at all levels from the animal to the individual patient, families and groups.

Sections then deal with parental loss and reparation, the problems of adoption, subjective aspects of being a patient. The care of sick students and doctors is also discussed. Following this, a section is devoted to chronic disease and death as they affect medical practice.

In the second section, directed by a member of the Department of Paediatrics, the effect of genetics upon behaviour is considered, followed up by behavioural and growth aspects of pre-and perinatal periods. A section on adolescents follows, in which with the help of normal and sick adolescents, their problems are investigated. A section on old age and another on sexuality complete the first year course. Direction of this course is shared with Paediatrics and Obstetrics and Gynaecology.

PROFESSORS AUFREITER, CAPLAN, COWAN, ENGELS, KINCH, KRAL, LELLA, LEHMANN, LEWIS, SCRIVER, STERN, UNWIN
AND OTHERS

SECOND YEAR. 555-221M. LECTURES AND DEMONSTRATIONS — BEHAVIOUR, GROWTH AND DEVELOPMENT COURSE. II. (Total time — 18 hours). In the second quarter, Dr. N. R. Eade, Department of Pharmacology and Therapeutics will give a section on drugs and behaviour (6 hours). This will be followed and the course completed by a presentation on psychopathology directed by Dr. H. E. Lehmann. His committee will give a brief series of lectures demonstrating cases of psychiatric illness and an integrated approach to major behavioural disorders. (12 hours).

THIRD YEAR. 555-321M. Nine weeks block teaching to acquaint students with the examination of patients and understanding of some of the major factors involved in abnormal behaviour. Diagnostic procedures, psychotherapeutic and physical methods of treatment will be among the aspects covered. Students will be provided with tutors on a group basis and will also have an opportunity to become conversant with certain more specialized areas of the field of psychiatry. An attempt will be made to provide a comprehensive experience of the total field of psychiatry and to provide a patient-oriented, responsibility-centred experience of emotional disorders.

DIRECTORS AND STAFF,
DEPARTMENTS OF PSYCHIATRY,
DOUGLAS HOSPITAL,
JEWISH GENERAL HOSPITAL,
MONTREAL CHILDREN'S HOSPITAL,
MONTREAL GENERAL HOSPITAL,
AND ROYAL VICTORIA HOSPITAL

Electives

Major electives are offered during the Second, Third and Fourth years. Details of this pro-

gramme are published in a separate *Elective Catalogue*. Detailed information can be obtained from the Associate Dean (Medical Education).

4.16.2

GRADUATE COURSES Diploma in Psychiatry (Dip. Psychiat.)

Minimum prerequisites for entry to the Diploma Programme in Psychiatry are a degree from an approved medical college or school and one year's rotating internship in an approved hospital on the North American continent. Students from outside the North American continent must have the ECFMG.

Applications for admission should be addressed to the Coordinator of Postgraduate Education, Department of Psychiatry, McGill University.

The programme is of four years' duration. Credit, not amounting to more than two years, may be given for study completed at other centres prior to enrolment at McGill University. In all instances, to qualify for the Diploma, the student must spend at least two years of graduate study in the Department of Psychiatry of McGill University in Montreal.

The Diploma Programme is organized to provide a comprehensive training for those preparing themselves for a career in the field of general psychiatry, and those who wish to proceed to specialized preparation in such fields as child, community, transcultural psychiatry, university teaching and research, or general hospital psychiatry with special emphasis upon psychosomatic work.

The first two years are devoted to establishing a fundamental knowledge of clinical conditions and of general therapeutic procedures. Special emphasis is laid upon psychopathology, psychodynamics and psychotherapy, and upon gaining experience in the full range of diagnostic and therapeutic procedures now in common use in psychiatry.

The last two years of the course provide considerable choice in courses and in training locations to meet the needs of those who wish special advanced experience in the special areas referred to above.

Increasing emphasis is now being placed upon research work. Students showing aptitude and inclination may spend a year either in the laboratories of the Allan Memorial Institute, or as a member of a field group, or on one of the clinical investigative teams at work in the various clinical teaching hospitals of McGill University.

Theoretical instruction and practical experience are closely and continuously integrated and the student is expected not only to participate in, but also to learn how best to use the major teaching procedures such as group dynamic sessions, discussions, seminars, didactic lectures, case conferences, journal clubs, recorded interviews as well as the one-way screen, films and closed circuit television and videotape.

Extensive use is made of the tutorial method of teaching, particularly in connection with psy-

chotherapy. In each of the four years, students are assigned to at least one tutor who is a member of the attending staff of his unit.

In addition to the training area within the Department of Psychiatry, postgraduate students who have completed not less than two years' training may be assigned to the research teams and groups established in connection with the other clinical centres, where they work under the direction of a senior member of the research staff. Moreover, arrangements are possible with other departments within the University for periods of special study; for instance, with the Montreal Neurological Institute for special instruction and experience in neurology, or with the University Clinic of the Department of Internal Medicine for special advanced work in the psychosomatic field. At least six months' work in a mental hospital and an equal time in child psychiatry are required. At least one year should be spent in a general hospital attachment.

Students are expected to have sufficient knowledge of English to participate adequately in seminar instruction and to benefit from their clinical experience.

Before receiving the Diploma, the candidate must pass an examination during the Second year and again at the end of the Fourth year.

Further information may be obtained by writing to the Coordinator of Postgraduate Education, Department of Psychiatry, McGill University.

4.16.2.1 Courses for the Degree of Master of Science in Psychiatry

See the Announcement of the Faculty of Graduate Studies and Research.

4.17 DIAGNOSTIC RADIOLOGY

4.17.1

UNDERGRADUATE COURSES

First Year

(558-121M)

NORMAL ROENTGEN ANATOMY. In co-operation with the Department of Anatomy.

PROFESSORS DUNBAR, ETHIER AND STAFF

ROENTGEN DEMONSTRATIONS OF PHYSIOLOGY. In co-operation with the Department of Physiology.

PROFESSORS DUNBAR, FRASER AND STAFF

RADIATION EXPOSURES AND HAZARDS. In co-operation with the Department of Genetics.

PROFESSORS DUNBAR, ROSENTHALL, BEIQUE, AND STAFF

Second Year

(558-221M)

Teaching in McGill's hospitals on "Biology of Disease" in co-operation with Departments of Pathology, Epidemiology and Microbiology.

Electives in Diagnostic Radiology in McGill teaching hospitals — The Royal Victoria Hospital, The Montreal General Hospital, The Jewish General Hospital, The Montreal Children's Hospital and The Montreal Neurological Institute.

**Third Year
(558-321M)**

Electives in Diagnostic Radiology are offered in all the Departments of Diagnostic Radiology of McGill teaching hospitals.

Seminars in Diagnostic Radiology are given weekly to Third year students during their "block time" in Medicine and Surgery.

**Fourth Year
(558-421M)**

Electives are offered in Diagnostic Radiology in all of the teaching hospitals of McGill.

Students during their "clinical clerkship" attend regular conferences with the Department of Diagnostic Radiology and the Clinical Departments of the teaching hospitals of McGill.

4.17.1.1**Electives**

Major electives are offered during the Second, Third and Fourth years. Details of this programme are published in a separate Elective Catalogue. Detailed information can be obtained from the Associate Dean (Medical Education).

4.17.2**GRADUATE COURSES****4.17.2.1****Diploma in Diagnostic Radiology***Minimum prerequisites*

Degree from an approved medical faculty, college, or school; one year of general rotating internship or its equivalent; appointment on the Resident Staff in Diagnostic Radiology in one of the teaching hospitals of this Faculty.

Required studies

Four years of postgraduate study in diagnostic radiology, including radiation physics and radiobiology, and in cognate fields, such as internal medicine, clinical surgery, or the basic sciences.

Advanced credit may be allowed for graduate study in diagnostic radiology or related fields in approved institutions or teaching hospitals elsewhere.

In addition to experience and training in general diagnostic radiology residents in the training programme are assured a minimum of four months in each of Paediatric Radiology and Neuroradiology, and a minimum of three months in Radioactive Isotopes.

Both written and oral examinations are required of those graduate students (residents in Diagnostic Radiology) who wish to obtain the McGill Diploma in Diagnostic Radiology. The examinations are not, however, required for completion of the training programme, nor are they necessary to become eligible for the specialty examinations of the Royal College of Physicians and Surgeons of Canada, or the College of Physicians and Surgeons of the Province of Quebec.

Further information may be obtained from the Chairman, Department of Diagnostic Radiology, McGill University.

**4.18 THERAPEUTIC
RADIOLOGY****4.18.1****UNDERGRADUATE COURSES**

FIRST YEAR. (561-121M). Special participation in the teaching of Basic Sciences not intended.

SECOND YEAR. (561-221M). *Introduction to Therapeutic Radiology, including the basic principles and applications of Radiation Physics, Radiobiology, and Radiopathology of conditions treated by means of ionizing radiation.*

THIRD YEAR. (561-321M). a) *Teaching of Clinical Therapeutic Radiology to be integrated with the surgical and medical aspects of Oncology in the management of neoplastic diseases; the details of such to be worked out with the Departments of Internal Medicine and Surgery.*

b) *Elective: Tutorial periods have been included with the list of electives from which students may select to come in Therapeutic Radiology.*

FOURTH YEAR. (561-421M). *Continuation of the clinical programme initiated in the Third year while attending Internal Medicine and Surgery. Electives in Therapeutic Radiology will be available and could be arranged in either of the two major teaching hospitals.*

4.18.2**GRADUATE COURSES****4.18.2.1****Diploma in Therapeutic Radiology***Minimum prerequisites*

Degree from an approved Medical Faculty, College or School; one year of general rotating internship; appointment on the Resident Staff of the Department of Therapeutic Radiology of one of the teaching hospitals recognized for the training in this specialty.

Required Studies

Four years of postgraduate study in Therapeutic Radiology, including Radiation Physics, Radiobiology, and Pathology in one of the University accredited teaching hospitals for such specialty training.

Advanced credit may be allowed by the Departmental Committee for graduate study in Therapeutic Radiology, Internal Medicine, Clinical Surgery or Basic Sciences, providing that such training has been received in approved institutions but not in excess of two of the required four years.

In addition to a thorough grounding in general Therapeutic Radiology, arrangements may be made for the candidate to pursue studies in a special aspect pertinent to his chosen specialty.

Residents training in Diagnostic Radiology will be welcome.

Preparation of a scientific paper, under supervision of a member of the Faculty as co-author, is strongly recommended.

Both written and oral or clinical final examinations are required.

The didactic programme of the Diploma Course and the associated clinical studies and training are fully accepted for the specialist certification by the several qualifying bodies.

Further information may be obtained from the Chairman, Department of Therapeutic Radiology, McGill University.

4.19 SURGERY

<i>Research Laboratories</i>	<i>Director</i>
1. The Donner Building	J. GORDON
2. The Montreal General Hospital	E. J. HINCHEY
3. The Royal Victoria Hospital	J. H. DUFF
4. The Montreal Children's Hospital	D. Y. E. PEREY

4.19.1

RESPONSIBILITIES OF RESEARCH DIRECTORS

1. The Donner Building

a) As Building Director, he has administrative responsibility for maintenance of the physical plant, care and maintenance of animals, and janitorial supervision of the building. In this capacity, he is responsible to the Dean of the Faculty of Medicine, McGill University.

b) Research laboratories:

- i) As Director, he will be responsible to the Chairman of the Department of Surgery, McGill University.
- ii) He will have authority, in consultation with the Chairman of the Department of Surgery, over research policies, and the allocation of space to research scientists. He will assure a high level of efficiency and will support in every way possible worthwhile research.
- iii) He will be expected each year to prepare a budget for presentation to the Chairman of the Department of Surgery.
- iv) The registration and processing of all M.Sc. and Ph.D. programmes will be effected through the office of the Director of the Experimental Surgery Laboratory (Donner Building).

2. The Montreal General Hospital

3. The Royal Victoria Hospital

4. The Montreal Children's Hospital (each Director)

Each Director will be responsible to respective hospital Chief of Surgery for all administrative matters pertaining to surgical research in his institution. He may be afforded extra responsibilities within his institution according to policy laid down by his Chief of Surgery.

4.19.2 REQUIRED UNDERGRADUATE COURSES

Second Year (564-221M)

Surgical teaching begins in the Spring term (12 weeks) of the Second year. In this year special attention is directed to the instruction and training of the student in proper methods of physical examination from the surgical point of view. This instruction is part of the Introduction to Clinical Sciences Programme.

Third Year (564-321M)

The student comes into a more intimate contact with the patients, and in the surgical term of nine weeks is assigned cases, writes case reports, acts as dresser, and assists at opera-

tions. His clinical work is confined to one hospital — either the Montreal General Hospital or the Royal Victoria Hospital.

- 3A. DISCUSSIONS concerning material covered in an assigned reading course will be held in the Montreal General and the Royal Victoria Hospitals one day each week.
- 3B. GROUP WARD CLASSES in the Montreal General and the Royal Victoria Hospitals, five times a week during the term.
- 3C. CASE REPORTING. Patients are allotted to students who act as reporters, dressers, and assistants at operations.

Fourth Year (561-421M)

In the Final year the student spends eight weeks attached to the surgical service of a hospital. During four of these weeks the student is required to live in the hospital.

4.19.2.1

Electives

Major electives are offered during the Second, Third and Fourth years. Details of this programme are published in a separate *Elective Catalogue*. Detailed information can be obtained from the Associate Dean (Medical Education).

4.19.3 SURGICAL DISEASES OF CHILDREN

Some instruction in the surgical diseases of children is given during the trimester in which the students are assigned to paediatrics at the Montreal Children's Hospital as follows:

- 4A. GROUP WARD CLASSES three times a week throughout the trimester.
In their Final year students attend either the Shriners' Hospital or the Montreal Children's Hospital for further instruction in paediatric surgery.

4.19.4

ORTHOPAEDIC SURGERY

FIRST YEAR. *Demonstrations. The functional anatomy given in conjunction with the Department of Anatomy.*

SECOND YEAR. *Principles of physical diagnosis of the musculoskeletal system as taught during the course on physical diagnosis.*

THIRD YEAR. *The principles of Orthopaedic surgery are covered during the course on Surgery. An attempt is made to broadly outline the content of adult Orthopaedics, children's Orthopaedics, and fractures.*

FOURTH YEAR. *Clinical clerkships are given in Orthopaedic surgery and electives are available for those who wish to pursue the subject in depth.*

4.19.5

UROLOGY

In the Final year students are assigned to the Urological Services of the Montreal General Hospital and Royal Victoria Hospital for one week and, in addition to this, ward classes are held three times a week in each hospital.

MEDICINE**4.19.6 GRADUATE COURSES
4.19.6.1 Diploma in Urology (Dip. Urol.)**

Minimum prerequisites for entry to the Diploma Programme in Urology are a degree from an approved Medical College or School, one year's rotating internship in an approved hospital, and two years of training in general surgery or divided between general surgery and pathology or some other basic science.

Applications for admission should be addressed to the Chairman, Department of Surgery, McGill University.

The course is of three years' duration. The three years are spent as a member of the

resident staff in the Department of Urology of the McGill University Teaching Hospitals. Throughout the three-year period, during the academic sessions, lectures or seminars are held one night each week. Through the co-operation of the Department of Medicine each candidate spends four months in the Renal Laboratory.

No examination is held. The Diploma is recommended on the satisfactory completion of the three year training programme.

For other graduate courses in Surgery, see the *Announcement of the Faculty of Graduate Studies and Research*.

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McGill University

Summer Session, 1973

The following course was omitted from the calendar but will definitely be offered this summer.

Faculty of Education: Department of Educational Psychology

414-641C Sociology of Education

Specific topics in this course differ somewhat from year to year but in general they deal with education in relation to society as a whole, educational organizations related to each other, the socialization process, and the social psychology of learning.

July 3 - August 10

10:30 a.m. - 12:30 p.m. daily

T.B.A.

IMPORTANT INFORMATION

McGILL University Summer Session

- I. All applicants whether they are in the midst of summer programs, e.g. (Diploma in Education) or applying for the first time, must submit a completed course registration form. This is necessary since the Summer Session Office is responsible for the administration of the courses offered in the summer by various departments and faculties; and as such, uniform records are required for all students.

II Applications

Depending upon the program or diploma for which you are applying, your completed application material and supporting documents must be returned to the appropriate address listed below.

- a. All summer applicants taking courses at the undergraduate level, collegial level, or diploma courses in Education with the exception of Technical/Vocational (see note below), and undergraduates taking graduate courses in German or Religious Studies must submit applications and supporting documents to:

Summer Session Office
McGill University
P.O. Box 6070
Montreal 101, Quebec

- b. Applicants who wish to obtain credit at the graduate level for courses in German or Religious Studies (that is, applicants who are either commencing studies leading to a graduate degree or are at the graduate level either at McGill or at other universities) must submit their applications and supporting documents to:

Faculty of Graduate Studies and
Research
McGill University
P.O. Box 6070
Montreal 101, Quebec

- c. Applicants pursuing courses leading to graduate degrees in Education must submit applications and supporting documents to:

Professor L. B. Birch
Director of Graduate Studies
Faculty of Education
McGill University
P.O. Box 6070
Montreal 101, Quebec

- d. Applicants for the Diploma in Technical/Vocational or Business Education must submit their applications and supporting documents to:

Professor F. Jack Young
Faculty of Education
McGill University
P.O. Box 6070
Montreal 101, Quebec

Note

All applications must be accompanied by a \$15 deposit fee (please note Page 8 of the Summer Session booklet.) Please do not submit your tuition fee payment until you have been accepted and billed by the Summer Session Office.

Students from other universities, colleges, or C.E.G.E.P.'s must have an official transcript of their academic work including the first semester of their current year sent to the appropriate address (listed above). McGill University students need not submit transcripts.

Students from other universities who wish to receive credit for summer courses taken at McGill University must, for their own assurance, submit a statement from their Director of Academic Study or other appropriate official granting them permission to take summer courses at McGill and stating that these courses will be credited by their home institution.

Applicants who have received early or conditional acceptance to McGill University must submit a photostat of that letter. Applicants who have completed only secondary school must submit their high school leaving results.

If you wish residence accommodation, please indicate this on the appropriate section of the Summer Session Application Form. The Summer Session Office will then forward to you the residence information and application forms.

For additional information concerning course offerings, applications and requirements please communicate with:

Miss Jeanne G. Marsolais
Assistant Director
Summer Session
McGill University
P.O. Box 6070
Montreal 101, Quebec

Phone No. 392-6740